

ABSTRACT

A method is disclosed for restoring a Glu⁺ phenotype to a PTS⁻/Glu⁻ bacterial cell which was originally capable of utilizing a phosphotransferase transport system (PTS) for carbohydrate transport. Bacterial cells comprising the Glu⁺ phenotype have
5 modified endogenous chromosomal regulatory regions which are operably linked to polynucleotides encoding galactose permeases and glucokinases.